

AMENDMENT AND PRESENTATION OF CLAIMS

Please replace all prior claims in the present application with the following claims.

1. - 4. (Canceled)

5. (Currently Amended) An apparatus comprising:

at least one processor; and

at least one memory including computer program code for one or more programs,

the at least one memory and the computer program code configured to, with the at least one processor, cause the apparatus to perform at least the following,

generate a message when the apparatus determines that the apparatus arrives in a localized service area, the message indicating that the apparatus is in the localized service area; ~~and~~

cause, at least in part, transmission of the message to a communications system ~~covering the localized service area to~~ ; and

receive, in response to the message, one or more available services localized based upon the localized service area.

6. (Previously Presented) An apparatus of claim 5, wherein the apparatus is a mobile phone, and said at least one memory includes a removable memory.

7. (Currently Amended) A method comprising:

generating, at a mobile station, a message when the mobile station determines that ~~the apparatus~~ it arrives in a localized service area, the message indicating that the mobile station is in the localized service area; and
causing, at least in part, transmission of the message to a communications system ~~covering the localized service area to receive~~ ; and
receiving, in response to the message, one or more available services localized based upon the localized service area.

8. (Previously Presented) A method of claim 7, further comprising:

in response to the message receiving one or more service changes at the mobile station.

9. (Previously Presented) A method of claim 8, wherein said one or more service changes involve sending of announcements to the mobile station.

10. – 12. (Canceled)

13. (Previously Presented) A method of claim 7, wherein the mobile station determines that the mobile station arrives in the localized service area by: comparing a current geographic location of the mobile station with a geographic definition of the localized service area stored at the mobile station, and determining the mobile station is located in the localized service area when the current geographic location of the apparatus is within the geographic definition of the localized service area.

14. (Currently Amended) A method of claim 13, further ~~comparing~~ comprising:
receiving control information from a plurality of base stations at the mobile station, the
control information including geographic coordinates of each respective one of the base
stations; and
averaging the geographic coordinates of the base stations to obtain the current geographic
location of the mobile station.
15. (Canceled)
16. (Previously Presented) A method of claim 7, wherein the message is either a short
message service message, an unstructured supplementary service data message, or a dual tone
multi-frequency-coded message.
17. (Previously Presented) A method of claim 7, wherein the message is sent to the
communications system in conjunction with a telephone call or a data call.
18. (Currently Amended) A method of claim 7, wherein the one or more available
services include ~~transmitting~~ announcements specific for the localized service area.
19. (Previously Presented) A method of claim 7, wherein the localized service area is an
airport or a cafeteria.

20. (Previously Presented) An apparatus of claim 5, wherein the apparatus determines that the apparatus arrives in the localized service area by: comparing a current geographic location of the apparatus with a geographic definition of the localized service area stored at the apparatus, and determining the apparatus is located in the localized service area when the current geographic location of the apparatus is within the geographic definition of the localized service area.

21. (Previously Presented) An apparatus of claim 20, wherein the apparatus is further caused to:

receive control information from a plurality of base stations, the control information including geographic coordinates of each respective one of the base stations; and average the geographic coordinates of the base stations to obtain the current geographic location of the apparatus.

22. (Currently Amended) A computer-readable storage medium carrying one or more sequences of one or more instructions which, when executed by one or more processors, cause an apparatus to at least perform the following steps:

generating a message when the apparatus determines that the apparatus arrives in a localized service area, the message indicating that the apparatus is in the localized service area; and cause, at least in part, transmission of the message to a communications system ~~covering the localized service area to receive ; and~~ receiving, in response to the message, one or more available services localized based upon the localized service area.

23. (Previously Presented) A computer-readable storage medium of claim 22, wherein the apparatus determines that the apparatus arrives in the localized service area by: comparing a current geographic location of the apparatus with a geographic definition of the localized service area stored at the apparatus, and determining the apparatus is located in the localized service area when the current geographic location of the apparatus is within the geographic definition of the localized service area.

24. (Previously Presented) A computer-readable storage medium of claim 22, wherein the apparatus is caused to further perform:

receiving control information from a plurality of base stations, the control information including geographic coordinates of each respective one of the base stations; and averaging the geographic coordinates of the base stations to obtain the current geographic location of the apparatus.

25. (Previously Presented) A method of claim 7, wherein the localized service area is defined independently from cells, and the current geographic location of the mobile station includes geographic coordinates.

26. (Currently Amended) A method of claim 7, further comprising:

causing, at least in part, transmission of a notification indicating that the mobile station determines that the mobile station departs the localized service area to change reception of the one or more available services.

27. (Previously Presented) A method of claim 7, wherein the localized service area is defined in a chronological term, a temporal dimension, or a combination thereof.

28. (Currently Amended) A method of claim 7, wherein the one or more available services include call pricing, call prioritization, a modulation method limitation, a communication data rate, communication connection quality, routing of incoming data to the mobile station or another mobile station, activation or inactivation of automatic call transfer, activation or inactivation of a voice mail service, or a combination thereof.